



PATENT

ATTORNEY DOCKET NO.: SCF-53-CON

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:)	
Alonzo W. Beasley, Jr.)	Examiner: Singh, Arti R.
)	
Serial No.: 10/684,639)	Art Unit: 1771
)	
Filed: October 14, 2003)	Deposit Acct. No.: 04-1403
)	
Title: Motor Vehicle Airbag and)	Client ID: 22827
Fabric For Use in Same)	

Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

DECLARATION UNDER 37 CFR 1.131

Dear Commissioner:

I, Alonzo W. Beasley, Jr., do hereby declare that:

1. This application was filed on October 14, 2003, but claims the benefit of Application Serial No. 09/558,766, filed April 26, 2000.
2. I have been advised that all claims of the application were rejected as being unpatentable over the disclosure of U.S. Patent No. 6,455,449 to Veiga et al. issued on September 24, 2002, and filed on September 3, 1999.
3. The present invention resides in the discovery that urethane-coated airbag fabrics may include a base fabric made from finer denier yarns of alternating deniers which produces a crest and trough pattern on the surface that enhances urethane adhesion.

4. As supported by the factual evidence submitted herewith, the claimed invention was conceived and, on information and belief, was reduced to practice prior to September 3, 1999.

5. The originals of Exhibits A through C discussed hereinafter in detail were all prepared prior to September 3, 1999. Actual dates and prospective customer name have been deleted.

6. As evidenced by Exhibit A, a base fabric of 315d warp and alternating fill of 315d and 210d denier was prepared. This fabric was designated style 4934. The first two pages of Exhibit A make up the request from the inventor for a sample of this fabric. Note that the "enduse" of the fabric is indicated to be "airbag". The third page of Exhibit A is a "Sample Specification" for this fabric. The fourth page is a "Warping, Processing, Weaving Order and Headend Ticket" (stamped "Air Bag") for this fabric. After the base fabric was made, it was tested as indicated by the "Certificate of Conformance" forming the last two pages of Exhibit A.

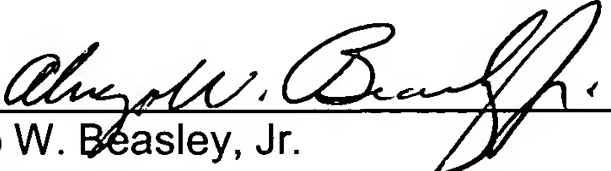
7. Exhibit B indicates that another sample of style 4934 was prepared. This base fabric also had 315d warp and alternating fill of 315d and 210d denier. The first page of Exhibit B is a "Sample Specification" for this fabric. The third page is a "Warping, Processing, Weaving Order and Headend Ticket" (stamped "Air Bag") for this fabric. After the base fabric was made, it was tested as indicated by the "Certificate of Conformance" forming the last two pages of Exhibit B.

8. As evidenced by Exhibit C, a base fabric of 420d warp and alternating fill of 420d and 315d denier was prepared. This fabric, designated style 4951, was requested by the document making up the first two pages of Exhibit C. After the base fabric was made,

it was tested as indicated by the "Certificate of Conformance" forming the last two pages of Exhibit C.

9. A style 4934 base fabric was sent to the prospective customer (a coater), whereupon a urethane coating was applied. Satisfactory adhesion levels were reported.

10. I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.



Alonzo W. Beasley, Jr.
Date: 6/09/06

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Bush

PROD. REQ. & COST FORM

TO: FRANCISCO BEDOYA

DATE

I. MARKETING

CUSTOMER: CUST. S/# C/R# 10-387

SCFTI S/#: 4934-02 WEAVE: Plain ENDUSE: Aib. LEVEL 4

GR. (MIN/NOM.)	FIN. (MIN./NOM.)	YES	NO
ENDS/IN: 55	60	WARP SIZE OK	X
PICKS/IN: 64 60 Sec Back	63-65	SPUN YARN TINT	
WIDTH: 75-76	69.5-70.5	HI. TEN REQD	

WARP: 315 / 144 / T-447 AK20 OLD/NEW

FILL: 315 / 144 / T-447 AK20 (Use Both) (pick + pick) 283 OLD/NEW

SCFTI PROCESS: 210/68/R-20 Dupont Nylon

GREIGE	CUT LENGTH RANGE	500 yds.
HEATSET IN THE GR.	MIN PC. LENGTH	200
SCOUR & HEATSET	SPLICES ALLOWED	yes
APPLY & FINISH	PACKAGING	36 spool

DESCRIBE FINISH: FINISH CODE: 9026

CFM RANGE: NA CUST. SPEC # TDD DATED: COPY OF CUST. SPEC ATTACHED (TEST REQ. Y/N) (CERT REQ Y/N) DEPT#:

II. TECHNICAL

TYPE LOOM: Dornier MULTIPLE PICKS - YES/NO EQUIVALENT PICKS: N/A YARDS PER BEAM: n/a (WARP IN PLANT & NEW YARNS ONLY)

CONST. IN LOOM: REED WIDTH: 81.23 SLEY: S20 OFF LM PICKS: 640-

WARP: 315 / 144 / T-447 AK20

FILLING: 315 / 144 / T-447 AK20 pick and pick FILLING YDS/LB: 14.150 = 315 du / 21250 = 210 du.

WARP YDS/LB: 14.150 EST. WARP CONTRACTION: 8%

REMARKS: sample fast -

SIGNATURE: DATE:

PROCESSES REQUIRED: (CIRCLE AS APPLICABLE)

PREPARATION	WEAVING	FINISHING	FINAL	TESTING
WINDING	DORNIER	BATCH	SLIT	INTERNAL
TWISTING (IN/OUT)	SULZER	SCOUR	INSPECT	CUST. LOT
WARPING (IN/OUT)		JIG/CONT.	PACK	NONSTD.
(BLOCK/TRANS.)		CAN DRY		PPAP
BEAMING/SLASHING		CONTACT HT SET SHIP		ANNUAL
		CALENDER/TENTER		QUAL.

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III. ENGINEERING

LOOMS/WEAVER: _____ OTHER: _____

IV. COST DEPARTMENT

DATE FWDED: _____

YDS/LOOM

TARGET CONTRIBUTION

FAB. WT.

OZ./SQ. YD.

120 HRS. _____

LOOM/WK _____ YD _____

COST:

VAR./YD: _____

FX/YD: _____

B/E/YD: _____

MIN. YD: _____

TAR. YD: _____

YARN PRICE: _____

WARP: _____

FILL: _____

SPECIAL INSTRUCTIONS: _____

DISCLAIMERS/COMMENTS: _____

A.

630 D.

has adhesion problem with low Deniers before

B.

Run this as Pattern 02.

C.

Pick insertion should BE 1/and 1. of two filling
yarns. See front.

D.

Low Tension on warp yarn.

E.

This is chud ONLY

SUBMITTED BY

L. B. B.

DATE: _____

APPROVED BY MARKETING MGR.

San B. B. for M. B. B.

DATE: _____

APPROVED BY DIR. TECH. SVCS

K. B. B.

DATE: _____

REJ. APPR TECH. SERV. MGR.

K. B. B.

DATE: _____

APPROVED BY MFG. REF. COMM.

K. B. B.

DATE: _____

FORWARD TO: _____

OR _____

CC:

J. ANDERSON

J. UNDERWOOD

S. DUERK

D. HARVELL

AFETY COMP. NTS FABRIC
TECHNOLOGIE, INC.

STYLE M ER LISTING
Sample Specification

PAGE:

Style:	W4934-0002-9026		Level:	IV
Description:	315,210 60 x 64 Low Warp tension	U/M:	YD	
Fabric:	8 harness and 6 banks of drop wires, 71% air space reed			
Weave:	Dupont t-6.6 nylon			
	Plain	PICK AND PICK WITH 2 FILLING YARNS		
Face:	Either			
Weave cut (yds):	500	Weave picks/inch:	64.00	
Edges:	Heat slit at loom			
Type size:	BF-44C-4% SOLIDS IN	SIZE BOX, 1% STRETCH ON SLASHING		
Other:	1 end 420/68 dk. blue nylon 24 ends from left side at slasher			
Warp yarn code:	RMNL1538	Supplier:	ACORDIS INDUSTRIAL FIBERS	
Description:	315/144 T-447 HRT-8		Acordis Scottsboro Nylon	
Twist:	Airbag Beams			
Merger:	None			
Fill yarn code:	RMNL1539	Supplier:	ACORDIS INDUSTRIAL FIBERS	
Description:	315/144 T-447 HRT-8		Acordis Scottsboro Nylon	
Twist:	Airbag Tubes			
Merger:	None			
Packaging:	See final inspection instructions			
Grading:	See final inspection instructions			
Purpose:	nylon coating fabric (Air bag)			
Tube size:	See final inspection instructions			
Std wt (yds/lb):	1.59	Width (in):	75.50	Est. Off Loom Max
Weight (lbs/yd):	0.628	Count (W x F):	54 x 63	Min
Allow dev %:	3.00	Wt (oz/syd):	4.71	4.71
		Target	76.00	Target
		Width (in):	69.50	70.50
		Count (W x F):	58 x 62	62 x 66
		Wt (oz/syd):	4.93	4.93
				Target
				70.00
				60 x 64
				4.93

Comments: AS C/R #10-387 var. W4934-01

FILLING YARN #2

RMNL 1618 210/68 R20 T-729 TUBES FROM DUPONT

Current rev: 000
Revision date: 05/25/1999
original

By: TK

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1015 (12/97)

(QHS-102,103)

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WARPING ORDER

F-1017 11/98

(RE: QMS - 102)

SAFETY COMPONENTS FABRIC TECHNOLOGIES, INC. - DUNEAN PLANT - 80

WARPING, PROCESSING, WEAVING ORDER AND HEADEND TICKET

STYLE: W-4934 EXP.-2

TYPE CLOTH: NYLON COATING AIR BAGS

DATE: _____

NO. REED DENT ENDS TOTAL
BEAMS: 1 SPREAD: 81.23" REED: 26.00 DENT: 2 DENTS: 2156" SLEY: 52.00 SHAFTS: 8

DRAW: STRAIGHT WEAVE: PLAIN EST % TYPE DIST. BTWN
CONT: 8% LOOM: DORNIER BM. HEAD: 81.75"
DEPT.: 10 BODY SELV TOTAL
ENDS: 4224 ENDS: 1 ENDS: 4225

SELVAGE: ** 1 END 420/68 DEN. DARK BLUE NYLON - HEAT SLIT AT LOOM

WEIGHT
PER YARD: .0001

FILLING A: 315/144/T-447 AKZO SCOTSBORO NYLON PICKS: 32 WT/YD: .1959
(14,150)

FILLING B: 210/68/R-20 DUPONT NYLON PICKS: 32 WT/YD: .1305
*INCLUDES 22 DENTS EACH SIDE FOR CATCH CORD,LENO,ETC. (21,250)

FILLING C: _____ PICKS: _____ WT/YD: _____

WARP A: 315/144/T-447 AKZO SCOTSBORO NYLON NO. ENDS: 4224 WT/YD: .3245
NO TINT - NO CUT MARKS (14,150)

WARP B: ** ADDED AT SLASHER 24 ENDS FROM LEFT NO. ENDS: _____ WT/YD: _____
EDGE AT SLASHER

WARP C: _____ NO. ENDS: _____ WT/YD: _____

WARPING LAYOUT

MAY ALSO BE WARPED AS BELOW:

12 - BMS @ 0 352 0
SELV. BODY A SELV.

_____ - BMS @ _____
SELV. BODY SELV.

_____ - BMS @ _____
SELV. BODY A SELV.

_____ - BMS @ _____
SELV. BODY SELV.

_____ - BMS @ _____
SELV. BODY SELV.

_____ - BMS @ _____
SELV. BODY SELV.

FOR HEADEND TICKET:

GREIGE EST. ACT.% GROUND OVERALL
WIDTH _____ WEIGHT _____ CONT _____ COUNT _____ COUNT: _____

ISSUED BY: FRANCISCO BEDOYA Francisco Bedoya DATE: _____

cc: BURTON, REESE, HALEY, HAVER, B.JAMES,D. ROBBINS, WEAVE ROOM, J. GLENN

D-10

R. DEATHERAGE (3), FRANCISCO BEDOYA (3)

D-10

CERTIFICATE OF CONFORMANCE

PAGE 1 OF 2

MANUFACTURER: Safety Components Fabric Tech. Inc.
Duncan Plant
Greenville, SC

TEST CONDITIONS: 72°F / 65% R.H.

CUSTOMER ID:

MATERIAL: W4934-02-9026

LOT: 20699

TEST DATE:

SPECIFICATION: TED

Piece No. Sample No.	8661T			Specification Requirement	UNIT OF MEASURE	TEST PROCEDURES
GRAB TENSILE WARP	427	0	0	Min:	Pounds	ASTM-D-5034
FILLING	389	0	0	Min:	Pounds	ASTM-D-5034
ELONGATION WARP	42	0	0	Min: Max:	Percent	ASTM-D-5034
FILLING	44	0	0	Min: Max:	Percent	ASTM-D-5034
TONGUE TEAR WARP	27	0	0	Min:	Pounds	ASTM-D-2261
FILLING	26	0	0	Min:	Pounds	ASTM-D-2261
TRAPEZOID TEAR WARP	0	0	0	Min:	Pounds	ASTM-D-4533
FILLING	0	0	0	Min:	Pounds	ASTM-D-4533
SHRINKAGE WARP	1.56	0.00	0.00	Max:	Percent	1 HR @ 300 F
FILLING	0.00	0.00	0.00	Max:	Percent	1 HR @ 300 F
FLAMMABILITY	0.0	0.0	0.0	Max:	IN/MIN	FMVSS-302
BOW				Max:	Percent	
BIAS				Max:	Percent	
WEIGHT	5.14	0.00	0.00	Min: Max:	OZ/YD2	ASTM-D-3776
WIDTH	70.0	0.0	0.0	Min: Max:	INCHES	ASTM-D-3774
ENDS	59.4	0.0	0.0	Min: Max:	EPI	ASTM-D-3775
PICKS	63.4	0.0	0.0	Min: Max:	PPI	ASTM-D-3775
BODY THICKNESS	.010	0.000	0.000	Min: Max:	Inches	ASTM-D-1777
DYNAMIC AIR PERM ADAP				Min: Max:	in/sec	T.B.D.
EXPONENT				Min: Max:		T.B.D.

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Material: W4934-02-9026

lot: 20699

Page 2 of 2

Piece No. Sample No.	86617			Specification Requirement	UNIT OF MEASURE	TEST PROCEDURES
MULLEN BURST NET				Min:	PSI	ASTM-D-3786
pH	7.5			Min: Max:	pH units	FTM 191
EXTRACTABLES (%)	.2			Max:	Percent	JPS 701
DYE STAIN	5			Min: 4	AATCC CROCK UNITS	JPS 701
AIR PERMEABILITY	0.00	0.00	0.00	Min: Max:	CFM	ASTM-D-737
CANTILEVER STIFFNESS WARP	0.0	0.0	0.0	Min: Max:	MG/CM2	ASTM-D-4032
FILL	0.0	0.0	0.0	Min: Max:	MG/CM2	ASTM-D-4032
CIRCULAR BEND WARP	.700	0.000	0.000	Min: Max:	Pounds	ASTM 4032
FILL	.700	0.000	0.000	Min: Max:	Pounds	ASTM 4032

I certify that the above tests were performed under my supervision in accordance with specification test requirements and that the reported test results are true, valid, and applicable to the samples tested. Test results as shown are within the acceptance limits for the parameters of the above material specifications except as noted with an asterisk (*).

ROBERT M. HOLCOMBE LAB DIRECTOR
(864) 240-2624

F-1065 (5/96)

[WI-2021]

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PERMISSION OF THE ORIGINATOR.

INFORMATION ONLY

FRY COMP VTS FABRIC
CHNOLOGIES, INC.

STYLE M/ M LISTING
Sample Specification

Style:	W4934-0003-9026		Level:	IV	
Description:	315 60 x 64 Acordis Low Warp tension		U/M:	YD	
Fabric:	8 harness and 6 banks of drop wires, 71% air space reed				
Leave:	Dupont t-6.6 nylon				
	Plain PICK AND PICK WITH 2 FILLING YARNS				
	WEAVE 3 LOTS				
Face:	Either				
Leave cut (yds):	200	Weave picks/inch:	64.00		
Edges:	Heat slit at loom				
Type size:	BF-44C-4 SOLIDS IN SIZE BOX. 1% STRETCH ON SLASHING				
Other:	1 end 420/68 dk.blue nylon 24 ends from left side at slash				
Yarn code:	RMNL1538				
Description:	Supplier: ACORDIS INDUSTRIAL FIBERS 315/144 T-447 HRT-8 Acordis Scottaboro Nylon Airbag Beams None				
Wist:	None				
erge:	None				
Yarn code:	RMNL1539				
Description:	Supplier: ACORDIS INDUSTRIAL FIBERS 315/144 T-447 HRT-8 Acordis Scottaboro Nylon Airbag Tubes None				
Wist:	None				
erge:	None				
ackaging:	See final inspection instructions				
ading:	See final inspection instructions				
urpose:	nylon coating fabric (Air bag)				
ube size:	See final inspection instructions				
td wt (yds/lb):	1.59	Width (in):	Min	Max	Est. Off Loom
eight (lbs/yd):	0.628	Count (W x F):	75.50	76.50	Target
llow dev %:	3.00	Wt(oz/syd):	54 x 63	56 x 65	76.00
			4.71	4.71	55 x 64
					4.71
Comments:	As c/r #10-407 as W4934-02				

Current rev: 000
Revision date: 08/10/1999 By: TK
ORIGINAL

FILLING YARN #2
RMNL 0051 210/72 T-447 HRT TUBES FROM ACORDIS, 100% AKZO

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215 (12/97)

(Q413-102.102)

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WARPING ORDER

F-1017 11/98

(RE: QMS - 102)

SAFETY COMPONENTS FABRIC TECHNOLOGIES, INC. - DUNEAN PLANT - 80

WARPING, PROCESSING, WEAVING ORDER AND HEADEND TICKET

STYLE: W-4934 EXP.-3

TYPE CLOTH: NYLON COATING AIR BAGS

DATE: _____

NO. REED DENT ENDS TOTAL
BEAMS: 1 SPREAD: 81.23" REED: 26.00 DENT: 2 DENTS: 2156" SLEY: 52.00 SHAFTS: 8

DRAW: STRAIGHT WEAVE: PLAIN EST % TYPE DIST. BTWN
CONT: 8% LOOM: DORNIER BM. HEAD: 81.75"
DEPT.: 10 BODY SELV TOTAL
ENDS: 4224 ENDS: 1 ENDS: 4225

SELVAGE: ** 1 END 420/68 DEN. DARK BLUE NYLON - HEAT SLIT AT LOOM

WEIGHT
PER YARD: .0001

FILLING A: 315/144/T-447 AKZO SCOTSBORO NYLON PICKS: 32 WT/YD: .1959
(14,150)

FILLING B: 210/72/R-20 ACORDIS 100% T-447 HRT FROM AKZO PICKS: 32 WT/YD: .1305
*INCLUDES 22 DENTS EACH SIDE FOR CATCH CORD, LENO, ETC. (21,250)

FILLING C: _____ PICKS: _____ WT/YD: _____

WARP A: 315/144/T-447 AKZO SCOTSBORO NYLON NO. ENDS: 4224 WT/YD: .3245
NO TINT - NO CUT MARKS (14,150)

WARP B: ** ADDED AT SLASHER 24 ENDS FROM LEFT NO. ENDS: _____ WT/YD: _____
EDGE AT SLASHER

WARP C: _____ NO. ENDS: _____ WT/YD: _____

WARPING LAYOUT

MAY ALSO BE WARPED AS BELOW

AIR BAG

12 - BMS @ 0 352 0
SELV. BODY A SELV.

- BMS @ _____
SELV. BODY SELV.

- BMS @ _____
SELV. BODY A SELV.

- BMS @ _____
SELV. BODY SELV.

- BMS @ _____
SELV. BODY SELV.

- BMS @ _____
SELV. BODY SELV.

FOR HEADEND TICKET:

GREIGE EST. ACT.% GROUND OVERALL
WIDTH _____ WEIGHT _____ CONT _____ COUNT _____ COUNT: _____

ISSUED BY: FRANCISCO BEDOYA Francisco Bedoya DATE: _____

cc: BEASLEY, BURTON, REESE, HALEY, HAYER, B. JAMES, D. ROBBINS, WEAVE ROOM, J. GLENN
D-10 R. DEATHERAGE (3), FRANCISCO BEDOYA (3) D-10

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CERTIFICATE OF CONFORMANCE

PAGE 1 OF 2

MANUFACTURER: Safety Components Fabric Tech. Inc.
Duncan Plant
Greenville, SC

TEST CONDITIONS: 72°F / 65% R.H.

CUSTOMER ID:

INFORMATION ONLY

MATERIAL: W4934-03-9026

LOT: 21138

TEST DATE:

SPECIFICATION: TBD

Piece No. Sample No.	17530	17540		Specification Requirement	UNIT OF MEASURE	TEST PROCEDURES
GRAB TENSILE WARP	450	442	0	Min:	Pounds	ASTM-D-5034
FILLING	379	389	0	Min:	Pounds	ASTM-D-5034
ELONGATION WARP	38	38	0	Min: Max:	Percent	ASTM-D-5034
FILLING	39*	40*	0	Min: Max:	Percent	ASTM-D-5034
TONGUE TEAR WARP	28	27	0	Min:	Pounds	ASTM-D-2261
FILLING	27	27	0	Min:	Pounds	ASTM-D-2261
TRAPEZOID TEAR WARP	0	0	0	Min:	Pounds	ASTM-D-4533
FILLING	0	0	0	Min:	Pounds	ASTM-D-4533
SHRINKAGE WARP	1.56	1.56	0.00	Max:	Percent	1 HR @ 300 F
FILLING	.31	.31	0.00	Max:	Percent	1 HR @ 300 F
FLAMMABILITY	0.0	0.0	0.0	Max:	IN/MIN	FMVSS-302
BOW	.31	.50		Max:	Percent	
BIAS	.75	.75		Max:	Percent	
WEIGHT	5.02	4.99	0.00	Min: Max:	OZ/YD2	ASTM-D-3776
WIDTH	70.5	71.0	0.0	Min: Max:	INCHES	ASTM-D-3774
ENDS	58.3	58.3	0.0	Min: Max:	EPI	ASTM-D-3775
PICKS	62.6	62.5	0.0	Min: Max:	PPI	ASTM-D-3775
BODY THICKNESS	.010	.010	0.000	Min: Max:	Inches	ASTM-D-1777
DYNAMIC AIR PERM ADAP				Min: Max:	cm/sec	T.B.D.
EXPONENT				Min: Max:		T.B.D.

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Page 2 of 2

Material: W4934-03-9026

lot: 21138

Piece No. Sample No.	17530	17540		Specification Requirement	UNIT OF MEASURE	TEST PROCEDURES
MULLEN BURST NET				Min:	PSI	ASTM-D-3786
pH	7.1	6.8		Min: Max:	pH units	FTM 191
EXTRACTABLES (%)	.5	.6		Max:	Percent	JPS 701
DYE STAIN	5	5		Min: 4	AATCC CROCK UNITS	JPS 701
AIR PERMEABILITY	2.04	2.00	0.00	Min: Max:	CFM	ASTM-D-737
CANTILEVER STIFFNESS						
WARP	0.0	0.0	0.0	Min: Max:	KG/CM2	ASTM-D-4032
FILL	0.0	0.0	0.0	Min: Max:	KG/CM2	ASTM-D-4032
CIRCULAR BEND						
WARP	.800	.800	0.000	Min: Max:	Pounds	ASTM 4032
FILL	.800	.800	0.000	Min: Max:	Pounds	ASTM 4032

I certify that the above tests were performed under my supervision in accordance with specification test requirements and that the reported test results are true, valid, and applicable to the samples tested. Test results as shown are within the acceptance limits for the parameters of the above material specifications except as noted with an asterisk (*).

ROBERT M. HOLCOMBE LAB DIRECTOR
(864) 240-2624

I-1065 (5/96)

[WI-2021]

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INFORMATION ONLY

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PROD. REQ. & COST FORM

TO: FRANCISCO BEDOYA

DATE

I. MARKETING

CUSTOMER:

CUST. S/#

C/R# 10-386

SCFTI S/#: 28355

WEAVE: Plain

ENDUSE: Fishery

LEVEL 4

GR. (MIN/NOM.)
ENDS/IN: 41-43
PICKS/IN: 48-50
WIDTH: 69.5-70.5

FIN. (MIN./NOM.)
44-
49
65-66

WARP SIZE OK

SPUN YARN TINT

HI. TEN REQD

YES

NO

WARP: 420/68/R20 Nylon Dupont T743

OLD/NEW

FILL: 420/68/1220 Nylon Dupont T743 (1/2)

PICKS

OLD/NEW

SCFTI PROCESS: 315/96/R20 Nylon Dupont T729 (1/2)

GREIGE

HEATSET IN THE GR.

SCOUR & HEATSET

APPLY & FINISH

CUT LENGTH RANGE

MIN PC. LENGTH

SPLICES ALLOWED

PACKAGING

wrapped in clear plastic

FINISH CODE: 9026

DESCRIBE FINISH:

CFM RANGE: NA

CUST. SPEC #

TBD

DATED:

COPY OF CUST. SPEC ATTACHED

(TEST REQ. Y/N)

(CERT REQ Y/N)

DEPT#: 10

II. TECHNICAL

TYPE LOOM: Dornier

MULTIPLE PICKS - YES/NO EQUIVALENT PICKS: 1/2

YARDS PER BEAM: N/A

(WARP IN PLANT & NEW YARNS ONLY)

CONST. IN LOOM:

REED WIDTH: 74.60"

SLEY: 40.0

OFF LM PICKS: 490

WARP:

420/68/R20 Nylon Dupont T-743

FILLING:

420/68/1220 Nylon Dupont T-729

PICK and PICK

WARP YDS/LB: 10.600

FILLING YDS/LB: 10.600 = 4204, 14.150 = 310

EST. WARP CONTRACTION:

890

REMARKS:

sample left

SIGNATURE:

Ramon

DATE: 5-21-99

PROCESSES REQUIRED: (CIRCLE AS APPLICABLE)

PREPARATION

WINDING

TWISTING (IN/OUT)

WARPING (IN/OUT)

(BLOCK/TRANS.)

BEAMING/SLASHING

WEAVING

DORNIER

SULZER

FINISHING

BATCH

SCOUR - JIG/CONT.

CAN DRY

CONTACT HT SET SHIP

CALENDER/TENTER

FINAL

SLIT

INSPECT

PACK

TESTING

INTERNAL

CUST. LOT

NONSTD.

PPAP

ANNUAL

QUAL.

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III. ENGINEERING
LOOMS/WEAVER: _____

OTHER: _____

DATE FWDED: _____

IV. COST DEPARTMENT

YDS/LOOM
120 HRS. _____

TARGET CONTRIBUTION
LOOM/WK _____ YD _____

FAB. WT. _____

OZ./SQ. YD. _____

COST: _____

VAR./YD: _____

FX/YD: _____

B/E/YD: _____

MIN. YD: _____

TAR. YD: _____

YARN PRICE: _____

WARP: _____

FILL: _____

SPECIAL INSTRUCTIONS: _____

DISCLAIMERS/COMMENTS: _____

- A) Urethane adhesion values below 630d are very low. Trial evaluation by making surface under with two different densities should provide better surface adhesion.
- B) If successful would rework in warp and fill.

SUBMITTED BY J. Holsonbach

DATE: _____

APPROVED BY MARKETING MGR. Lo. B. J. for S. B. J.

DATE: _____

APPROVED BY DIR. TECH. SVCS K. Bate

DATE: _____

REJ. (APPR) TECH. SERV. MGR. K. Bate

DATE: _____

APPROVED BY MFG. REF. COMM. K. Bate

DATE: _____

FORWARD TO: _____

OR _____

CC: _____

J. ANDERSON

J. UNDERWOOD

S. DUERK

D. HARVELL

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CERTIFICATE OF CONFORMANCE

PAGE 1 OF 2

MANUFACTURER: Safety Components Fabric Tech. Inc.
Duncan Plant
Greenville, SC

TEST CONDITIONS: 72°F / 65% R.H.

CUSTOMER ID:

MATERIAL: W4951-01-9026

LOT: 20701

TEST DATE:

SPECIFICATION: TBD

Piece No. Sample No.	8619T			Specification Requirement	UNIT OF MEASURE	TEST PROCEDURES
GRAB TENSILE WARP	430	0	0	Min:	Pounds	ASTM-D-5034
FILLING	424	0	0	Min:	Pounds	ASTM-D-5034
ELONGATION WARP	34	0	0	Min: Max:	Percent	ASTM-D-5034
FILLING	43	0	0	Min: Max:	Percent	ASTM-D-5034
TONGUE TEAR WARP	47	0	0	Min:	Pounds	ASTM-D-2261
FILLING	41	0	0	Min:	Pounds	ASTM-D-2261
TRAPEZOID TEAR WARP	0	0	0	Min:	Pounds	ASTM-D-4533
FILLING	0	0	0	Min:	Pounds	ASTM-D-4533
SHRINKAGE WARP	1.25	0.00	0.00	Max:	Percent	1 HR @ 300 F
FILLING	0.00	0.00	0.00	Max:	Percent	1 HR @ 300 F
FLAMMABILITY	0.0	0.0	0.0	Max:	IN/MIN	FMVSS-302
BOW	.56			Max:	Percent	
BIAS	.50			Max:	Percent	
WEIGHT	5.10	0.00	0.00	Min: Max:	OZ/YD2	ASTM-D-3776
WIDTH	66.0	0.0	0.0	Min: Max:	INCHES	ASTM-D-3774
ENDS	44.5	0.0	0.0	Min: Max:	EPI	ASTM-D-3775
PICKS	48.3	0.0	0.0	Min: Max:	PPI	ASTM-D-3775
BODY THICKNESS	.012	0.000	0.000	Min: Max:	Inches	ASTM-D-1777
DYNAMIC AIR PERM ADAP				Min: Max:	MB/sec	T.B.D.
EXPONENT				Min: Max:		T.B.D.

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Material: W4951-01-9026

lot: 20701

Page 2 of 2

Piece No. Sample No.	86197			Specification Requirement	UNIT OF MEASURE	TEST PROCEDURES
MULLEN BURST NET				Min:	PSI	ASTM-D-3786
pH	7.0			Min: Max:	pH units	FTM 191
EXTRACTABLES (%)	.5			Max:	Percent	JPS 701
DYE STAIN	5			Min: 4	AATCC CROCK UNITS	JPS 701
AIR PERMEABILITY	6.04	0.00	0.00	Min: Max:	CFM	ASTM-D-737
CANTILEVER STIFFNESS						
WARP	0.0	0.0	0.0	Min: Max:	MG/CM2	ASTM-D-4032
FILL	0.0	0.0	0.0	Min: Max:	MG/CM2	ASTM-D-4032
CIRCULAR BEND						
WARP	0.000	0.000	0.000	Min: Max:	Pounds	ASTM 4032
FILL	0.000	0.000	0.000	Min: Max:	Pounds	ASTM 4032

I certify that the above tests were performed under my supervision in accordance with specification test requirements and that the reported test results are true, valid, and applicable to the samples tested. Test results as shown are within the acceptance limits for the parameters of the above material specifications except as noted with an asterisk (*).

ROBERT M. HOLCOMBE LAB DIRECTOR
(864) 240-2624

F-1065 (5/96)

[WI-2021]

THIS REPORT MAY NOT BE REPRODUCED EXCEPT IN TOTAL WITHOUT THE PERMISSION OF THE ORIGINATOR.